

Ticomp S

Material Data Sheet



Product Information

8141, TICOMP S

A fluoro-polymer composite containing reinforcing filaments and lubricants which optimise adhesive wear resistance at loads of up to 4 MPa and surface speeds of 3.2 m/sec.

Features

TICOMP S can be cost effectively used for static and rotary seals running on softer metal surfaces like stainless steel. Shaft sleeves for vertical spindle and horizontal centrifugal acid pumps are also prime applications. Gaskets and wear strips also benefit from the outstanding properties of TICOMP S.

Benefits

TICOMP S has unique advantages over other inorganic and polymer filled materials:

- Excellent chemical resistance, closely matching that of Virgin PTFE
- Service temperature under load can be rated up to 210°C depending on media, loads and speeds
- Excellent thermal stability
- Excellent ductility combined with low friction optimises adhesive wear resistance
- Alloy constituents are FDA approved

Typical Applications

- High duty seals
- Low deformation gaskets
- Bearings at up to 240°C

Delivery Program

Rod

- 30-40mm Dia in 300mm lengths
- 12-40mm Dia in 2000mm lengths

Sheet

- Made to order 610x610mm up to 20mm

Tube

- Made to order OD36 to 639mm, 150 to 300mm lengths*, max 30mm wall

*Varies for each size depending on tooling

Physical Properties

Property	Value	Unit
Tensile Strength	29	MPa
Elongation	305	%
Hardness	64	
Co-eff of Thermal Expansion	10-30°C: 194 30-100°C: 83 100-170°C: 99	10 ⁻⁶ K ⁻¹
Max Short Term Temp	300	°C
Operating Temp	260	°C
Volume Resistivity	>10 ¹⁵	
Dielectric Constant	2.25	
K Factor		mm ³ /Nm
	4m/s, 1um, 1 N/mm ²	4.6x10 ⁻⁶
	4m/s, 1um, 5 N/mm ²	5.3x10 ⁻⁶
	0.5m/s, 1um, 1 N/mm ²	2.8x10 ⁻⁶
	0.5m/s, 1um, 5 N/mm ²	1.0x10 ⁻⁶
	0.5m/s, 2um, 5 N/mm ²	2.2x10 ⁻⁶
	150°C 0.5m/s, 1um, 1 N/mm ²	1.2x10 ⁻⁶
	200°C 0.5m/s, 1um, 1 N/mm ²	1.1x10 ⁻⁶
Coefficient of Friction		
	4m/s, 1um, 1 N/mm ²	0.29
	4m/s, 1um, 5 N/mm ²	0.26
	0.5m/s, 1um, 1 N/mm ²	0.2
	0.5m/s, 1um, 5 N/mm ²	0.23
	0.5m/s, 2um, 5 N/mm ²	0.18
	150°C 0.5m/s, 1um, 1 N/mm ²	0.39
	200°C 0.5m/s, 1um, 1 N/mm ²	0.15



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Figures provided are statistical average values. All data herein is represented in good faith, however without guarantee or warranty.

Unit 1A, 25 Loyalty Road North Rocks NSW 2151, Australia
ABN 98 115 022 592

W: www.fluoropacific.com | E: sales@fluoropacific.com.au | T: +61 2 9630 0022